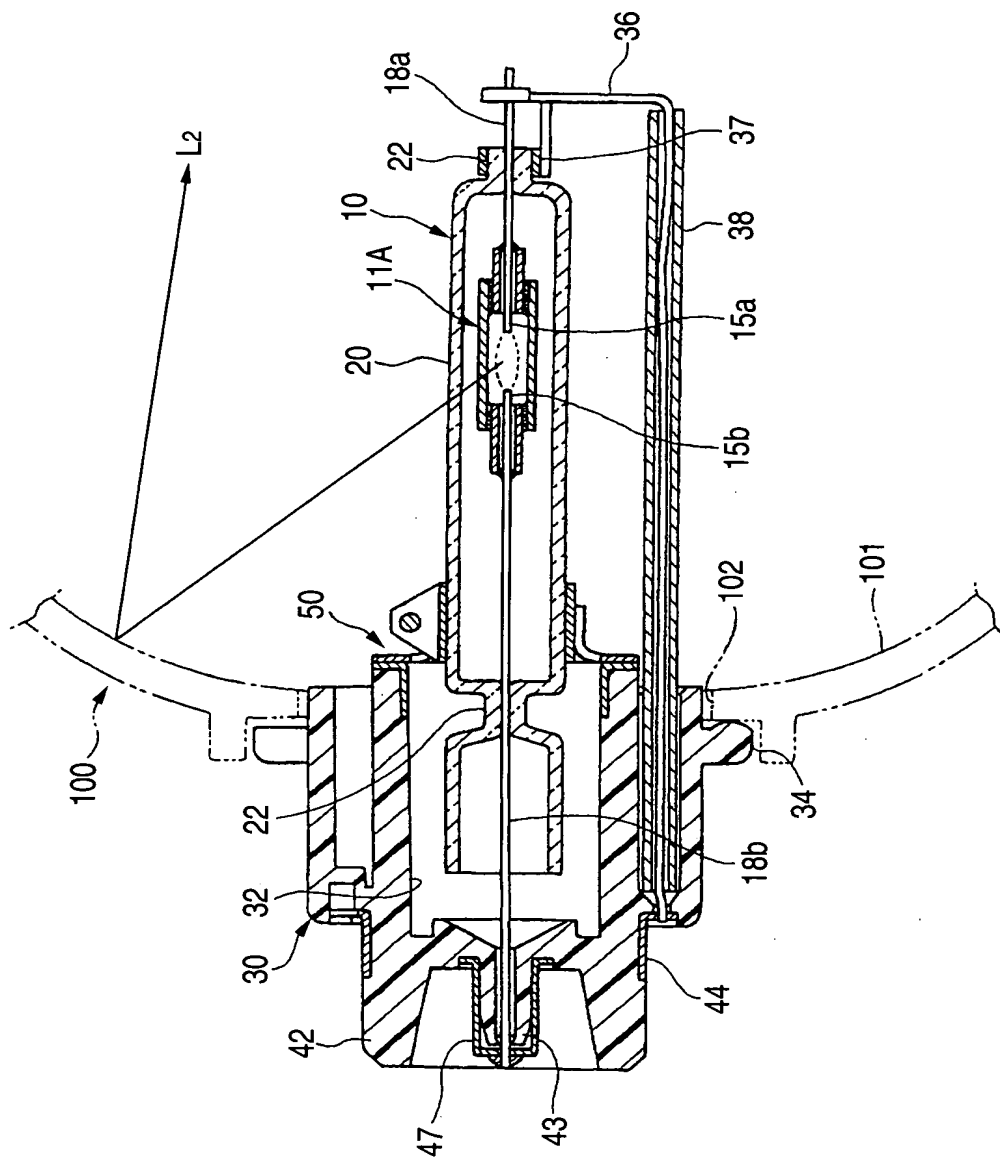
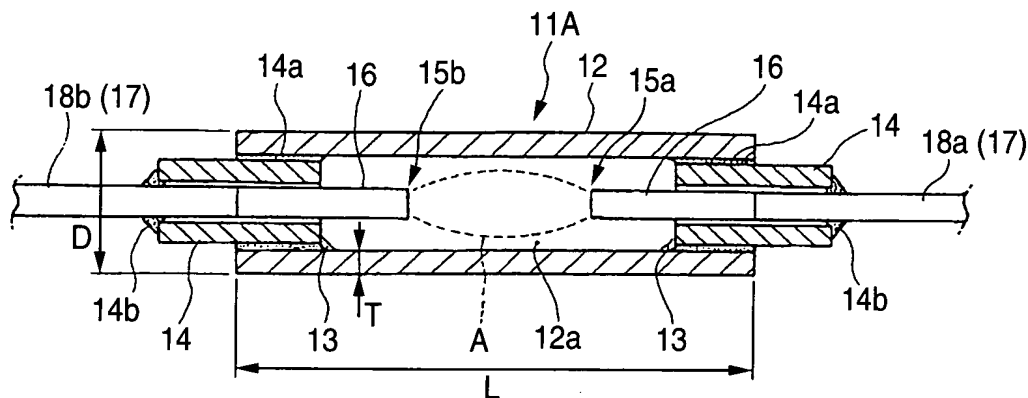


FIG. 1



**FIG. 2**



**FIG. 3**

INSIDE DIAMETER (mm)	WHOLE LUMINOUS FLUX	EVALUATION
0.5	1200	×
1.0	1630	×
1.5	2030	○
2.0	2390	○
2.5	2730	○

**FIG. 4**

INSIDE DIAMETER (mm)	WHOLE LUMINOUS FLUX	EVALUATION
6.0	2600	○
8.0	2560	○
10.0	2410	○
12.0	2250	○
14.0	2030	○
16.0	1780	×
18.0	1370	×

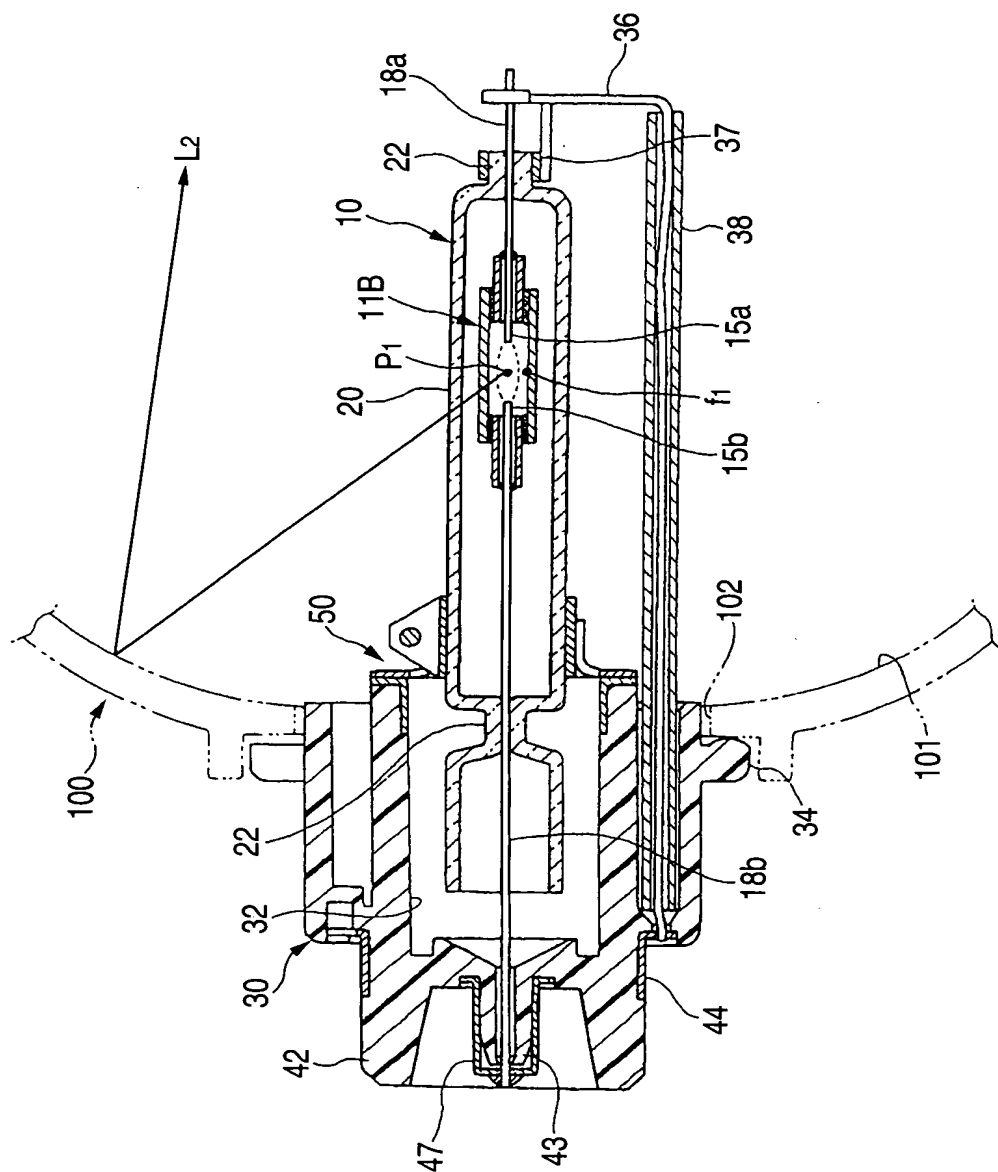
**FIG. 5**

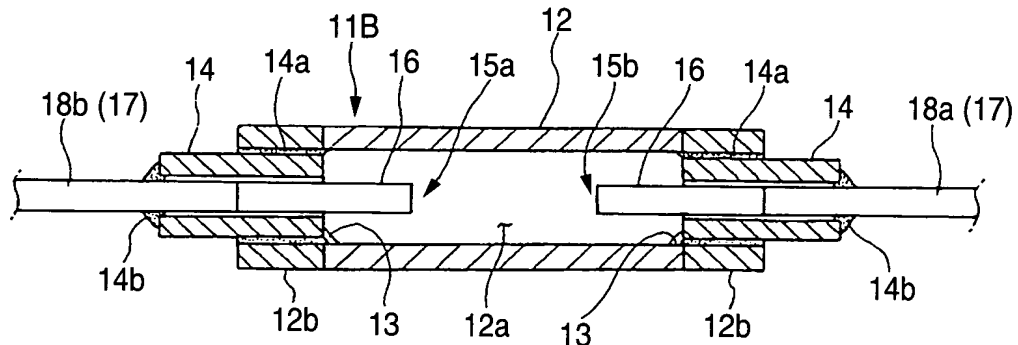
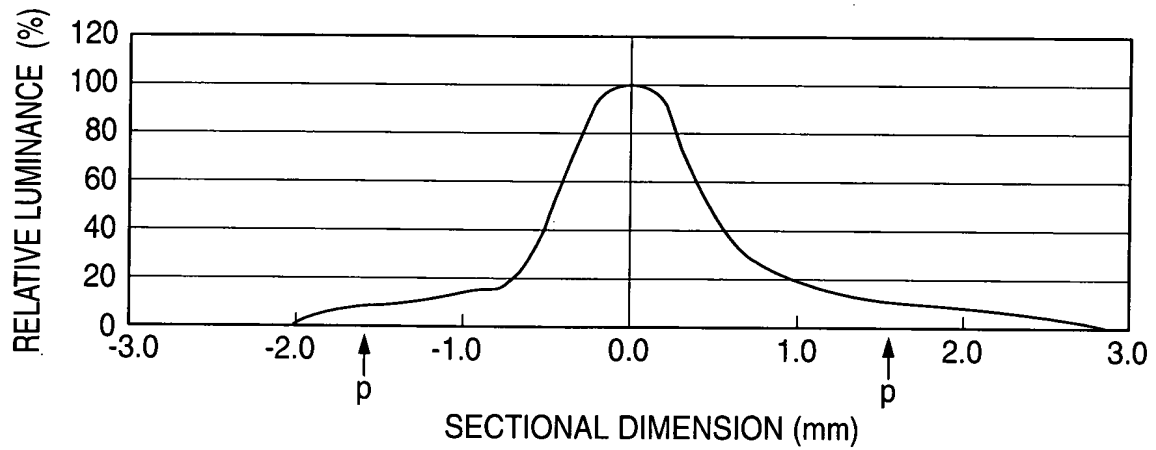
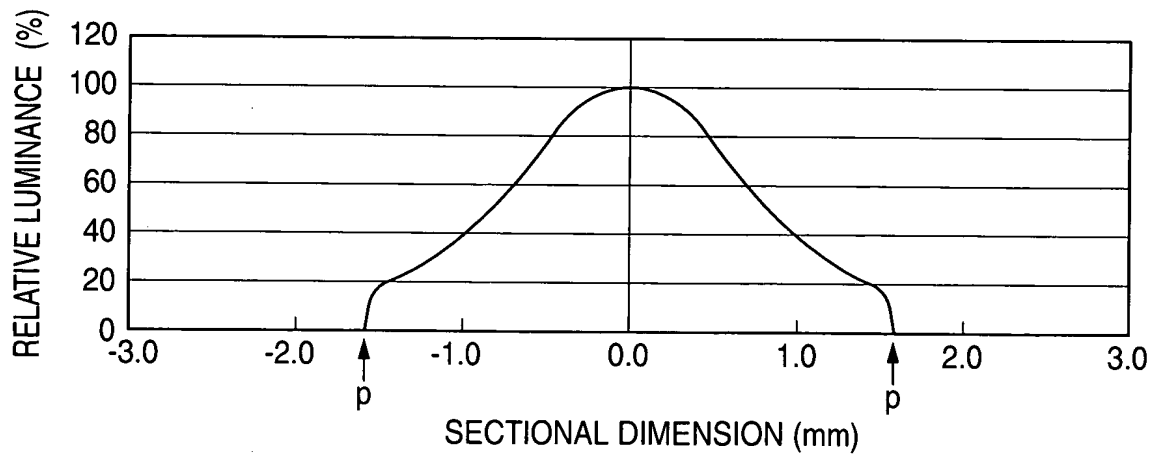
THICKNESS OF LIGHT EMITTING TUBE (mm)	DURABILITY
0.15	CRACK GENERATED BY ON/OFF STATE
0.20	CRACK GENERATED BY ON/OFF STATE
0.25	OK
0.50	OK
0.70	OK
1.00	OK
1.20	OK
1.40	CRACK GENERATED BY ON/OFF STATE

**FIG. 6**

OUTSIDE DIAMETER d (mm)		1.5	2.0	2.5	3.0	3.5	4.0	4.5
LENGTH OF LIGHT EMITTING TUBE L (mm)	4.0	0.37 ×	0.50 ×	0.62 ×	0.75 ×	×	×	×
	6.0	0.25 ×	0.33 ○	0.41 ○	0.50 ×	0.58 ×	0.66 ×	0.75 ×
	8.0	0.18 ×	0.25 ○	0.31 ○	0.37 ○	0.43 ○	0.50 ○	0.56 ×
	10.0	0.15 ×	0.20 ○	0.25 ○	0.30 ○	0.35 ○	0.40 ○	0.45 ×
	12.0	×	0.16 ×	0.20 ○	0.25 ○	0.29 ○	0.33 ○	0.37 ×
	14.0	×	×	0.17 ×	0.21 ×	0.25 ○	0.28 ○	0.32 ×

FIG. 7



**FIG. 8****FIG. 9****FIG. 10**

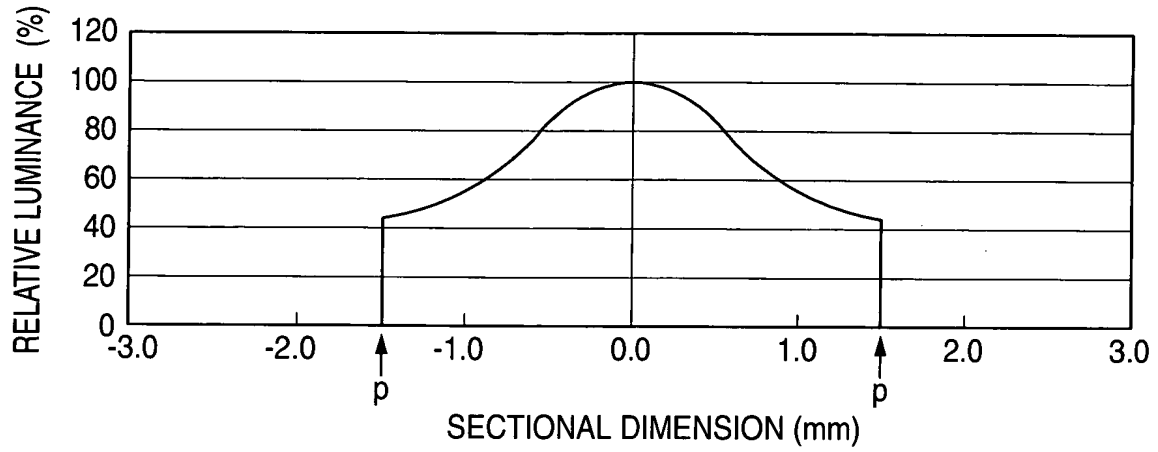
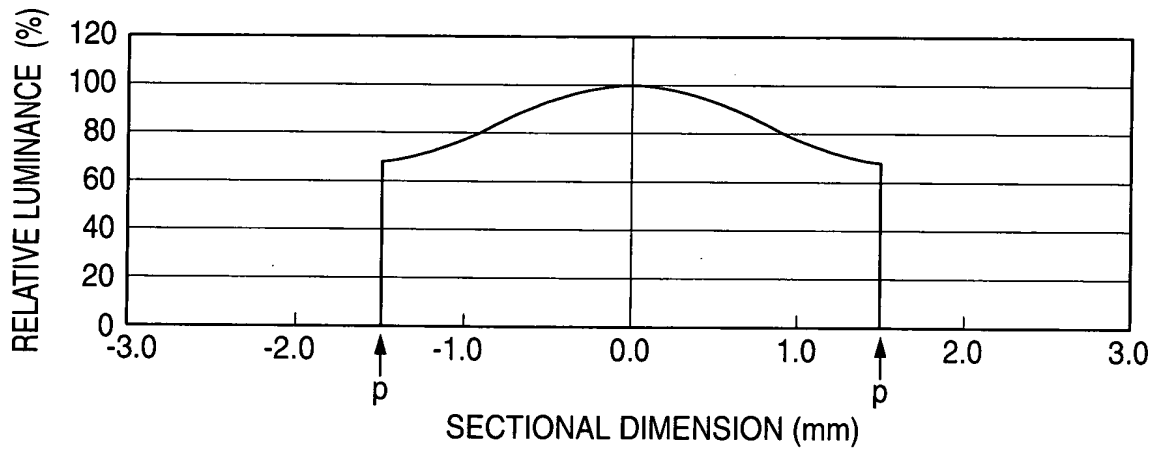
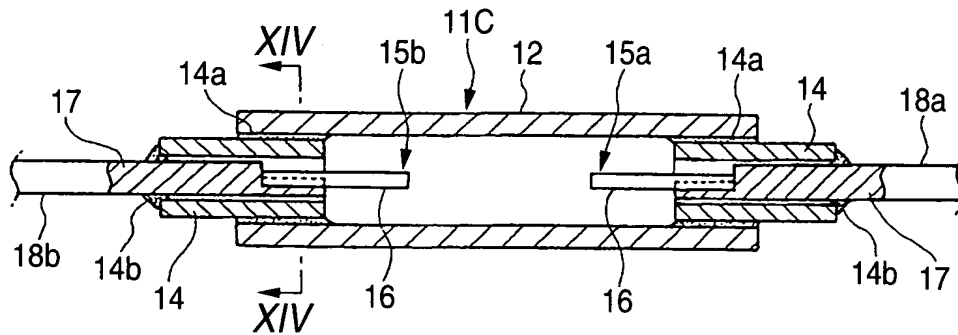
**FIG. 11****FIG. 12****FIG. 13**

FIG. 14 (a)

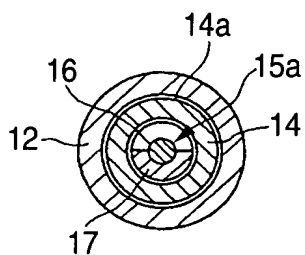


FIG. 14 (b)

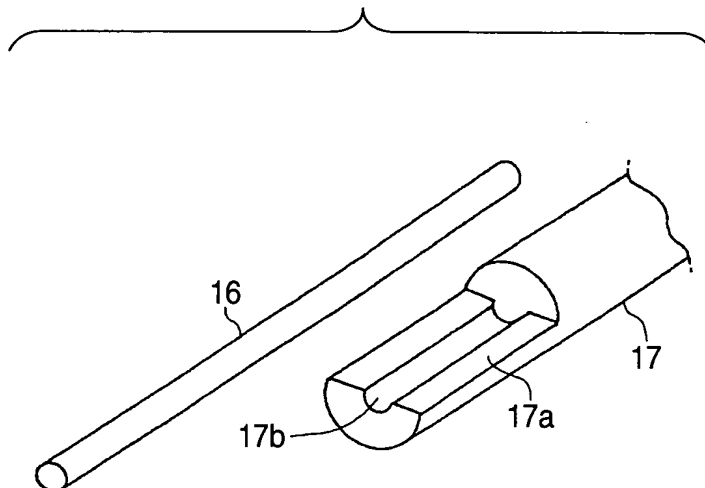
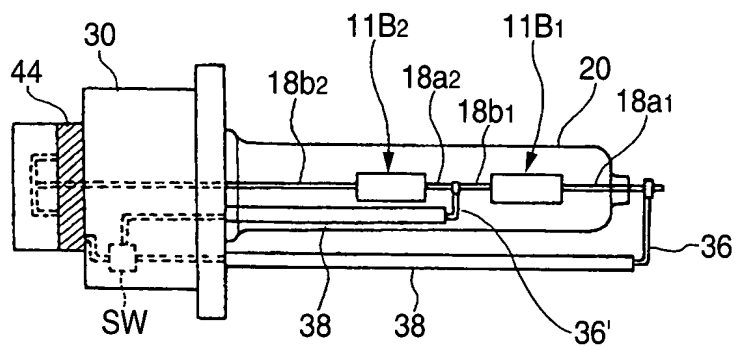
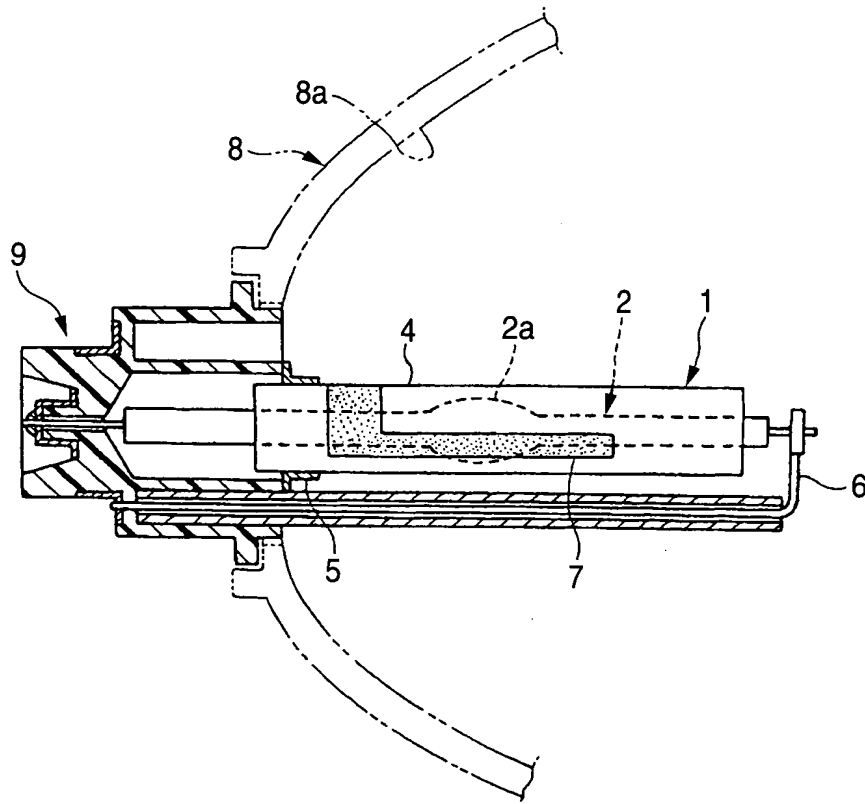


FIG. 15



**FIG. 16****FIG. 17**